

PROJECT DESCRIPTION

I. GENERAL

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 279 AND AIRPORT ROAD IN CECIL COUNTY. THE MODIFICATION WILL UPGRADE PRESENCE DETECTION TO VIDEO DETECTION AND UPGRADE PASSAGE DETECTION TO NONINVASIVE DETECTORS. MD 279 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

II. INTERSECTION OPERATION

THE INTERSECTION OPERATES IN A NEMA 6 PHASE, SEMI-ACTUATED MODE. THE NORTHBOUND AND SOUTHBOUND APPROACHES ON MD 279 OPERATE CONCURRENTLY WITH LEADING EXCLUSIVE/PERMISSIVE LEFT TURN PHASES PROVIDED FOR BOTH APPROACHES. AIRPORT ROAD AND TRUCK STOP APPROACHES OPERATE CONCURRENTLY.

CONTACTS

DISTRICT (DISTRICT 2)

MR. TERRY WRIGHT
DISTRICT ENGINEER
410-810-3210

MR. JEFF WENTZ
ASSISTANT DISTRICT ENGINEER - TRAFFIC
410-810-3240

MR. BARRY CLOTHIER
DISTRICT UTILITY ENGINEER
410-810-3275

MR. WM NORRIS EMBERT
ASSISTANT DISTRICT ENGINEER - CONSTRUCTION
410-810-3270

MR. MIKE LEWIS
ASSISTANT DISTRICT ENGINEER - MAINTENANCE
410-810-3250

OFFICE OF TRAFFIC AND SAFETY

VACANT
CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. ROBERT SNYDER
ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS
410-787-7630

MR. EDWARD RODENHIZER
CHIEF, SIGNAL OPERATIONS SECTION
410-787-7650

MR. EUGENE BAILEY
CHIEF, SIGN OPERATIONS SECTION
410-787-7670

MR. MICHAEL STOCKER
SUPPLY OFFICER IV (SIGNAL SHOP WAREHOUSE)
410-787-7696

EQUIPMENT LIST

A. EQUIPMENT TO BE FURNISHED BY STATE HIGHWAY ADMINISTRATION

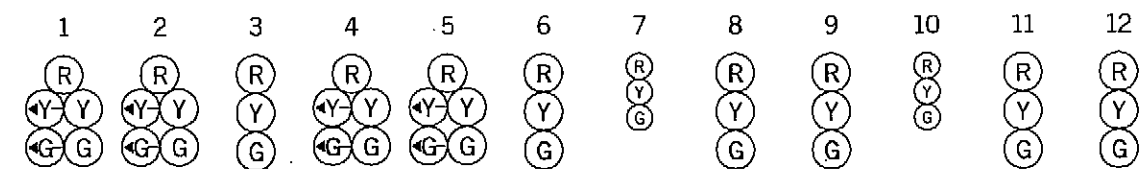
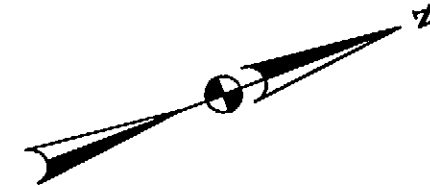
ITEM NO.	QUANTITY	DESCRIPTION
9046	1 EA	[UPDATED] DETECTOR RACK RETROFIT
9124	1 EA	VIDEO DETECTION INTERFACE EQUIPMENT: 1-8 CAMERAS

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1002	SEE SHEET 2 OF 4	MAINTENANCE OF TRAFFIC
8005	2 EA	PEDESTAL POLE - ANY SIZE
8007	SEE SHEET 2 OF 4	REMOVE & DISPOSE OF MATERIAL & EQUIPMENT PER ASSIGNMENT
8008	4 EA	VIDEO DETECTION CAMERA & CABLE
8012	295 LF	PULL BACK & RE-ROUTE CABLES
8013	290 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCH - BORED
8015	595 LF	SCHEDULE 80 RIGID PVC CONDUIT UP TO 4 INCH - TRENCHED
8016	275 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
8017	4 EA	NONINVASIVE DETECTOR, 1000 FOOT LEAD IN CABLE
8018	9 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8026	1 CY	TEST PIT EXCAVATION

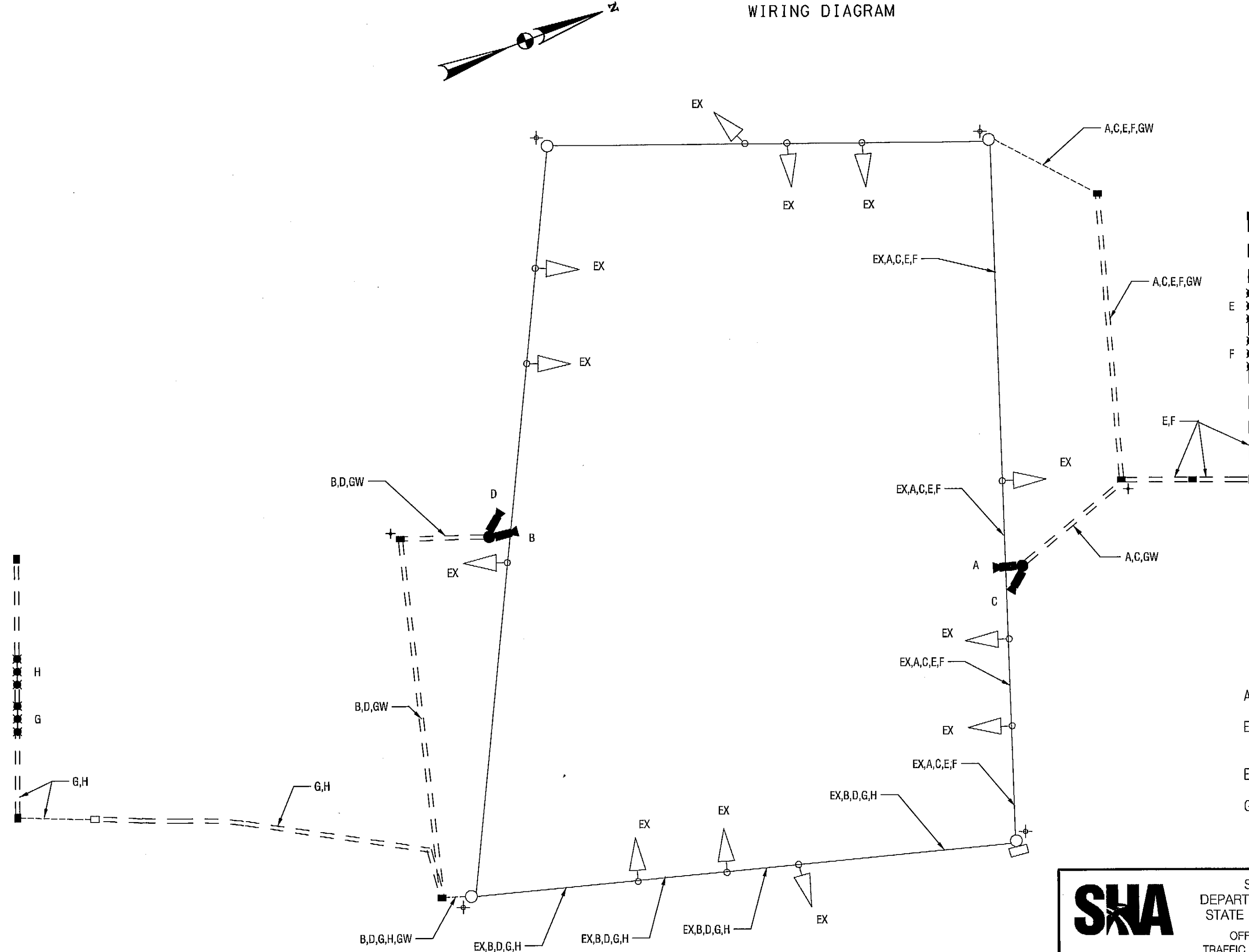
C. ALL MATERIALS TO BE REMOVED BY THE CONTRACTOR SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE SIGNAL MODIFICATIONS.

PHASE CHART



PHASE 1 & 5	←G-R	←G-R	R	←G-R	←G-R	R	R	R	R	R	R	R	R
PHASE 1 & 5 MAY CHANGE TO PHASE 1 & 6, 2 & 5, OR 2 & 6													
PHASE 1 & 6	←G-G	←G-G	G	R	R	R	R	R	R	R	R	R	R
1 CHANGE	←Y-G	←Y-G	G	R	R	R	R	R	R	R	R	R	R
PHASE 2 & 5	R	R	R	←G-G	←G-G	G	R	R	R	R	R	R	R
5 CHANGE	R	R	R	←Y-G	←Y-G	G	R	R	R	R	R	R	R
PHASE 2 & 6	G	G	G	G	G	G	R	R	R	R	R	R	R
2 & 6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	R
PHASE 4 & 8	R	R	R	R	R	R	G	G	G	G	G	G	G
4 & 8 CHANGE	R	R	R	R	R	R	Y	Y	Y	Y	Y	Y	Y
FLASHING OPERATION	FLY	FLY	FLY	FLY	FLY	FLY	FLR	FLR	FLR	FLR	FLR	FLR	FLR

WIRING DIAGRAM



TOD NO: XX662-04
SHA NO: CE398B53
MD 279 from Belle Hill Rd to Delaware State Line

WIRING KEY

- A,B,C,D - VIDEO DETECTION CABLE
E,F,G,H - MICROLOOP PROBE LEAD-IN CABLE
EX - EXISTING SIGNAL CABLE
GW - GROUND WIRE



STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION

MD 279 AND AIRPORT ROAD
DETECTION UPGRADE
ELKTON, MD

GENERAL INFORMATION SHEET

SCALE 1"=20' DATE JUNE 15, 2012 CONTRACT NO. XX6625185

DESIGNED BY MF COUNTY CECIL
DRAWN BY EML LOGMILE 07027904.22
CHECKED BY MF TMS NO. L373
F.A.P. NO. TOD NO.

TS NO.2059B-GI DRAWING SG-02 OF 02 SHEET NO. 04 OF 04

**PARSONS
BRINCKERHOFF**

100 S. Charles Street
Tower 1, 10th Floor
Baltimore, MD 21201
(Ph) 410-787-5050
(Fax) 410-727-4808
http://www.pbworld.com

PLOTTED: Thursday, June 28, 2012 AT 05:02 PM
FILE: T:\17324\K-TrafficDesign\services\TRF\6\Plans\pSG_N000-MD 279 @ Airport.dgn

BY: Fukui-